
Mathematics Opportunities

NSF Postdoctoral Research Fellowships

The National Science Foundation (NSF) awards Mathematical Sciences Postdoctoral Research Fellowships (MSPRF) for appropriate research in areas of the mathematical sciences, including applications to other disciplines. A program announcement is available from the website http://www.nsf.gov/publications/pubsumm.jsp?WT.z_pims_id=5301&ods_key=nsf08582. The deadline for proposals is **October 20, 2010**.

—From an NSF announcement

NSF Conferences and Workshops in the Mathematical Sciences

The National Science Foundation (NSF) supports conferences, workshops, and related events (including seasonal schools and international travel by groups). Proposals for conferences, workshops, or conference-like activities may request funding of any amount and for durations of up to three years. Proposals may be submitted only by universities and colleges and by nonprofit nonacademic institutions. For full information, including deadlines for each disciplinary program, see the website http://www.nsf.gov/pubs/2010/nsf10578/nsf10578.htm?WT.mc_id=USNSF_25&WT.mc_ev=click.

—From an NSF announcement

NSF Research Networks in the Mathematical Sciences

The National Science Foundation (NSF) has initiated the Research Networks in Mathematical Sciences (RNMS) Program to provide support over five to ten years for research collaborations that will cross intellectual, institutional, national, or other boundaries. The goals of the RNMS program are (1) to support coordinated research and training collaborations that link together researchers addressing significant challenges in the mathematical sciences and (2) to broaden participation in the mathematical sciences

by creating new opportunities for research involvement and support. It will complement existing research award mechanisms to promote disciplinary progress in mathematics and statistics and to promote progress on multidisciplinary research agendas. It will create a new class of rich and stimulating environments for recruiting, educating, and training the next generation of mathematicians and statisticians, and it will help to form effective connections among academic researchers and researchers in government, industry, and international institutions.

Proposals may be submitted only by universities and colleges. The deadline for full proposals is **November 9, 2010**. For more information, see the website http://www.nsf.gov/pubs/2010/nsf10584/nsf10584.htm?WT.mc_id=USNSF_25&WT.mc_ev=click.

—From an NSF announcement

Visiting Positions at CIRM

The Centro Internazionale per la Ricerca Matematica (CIRM), the Fondazione Bruno Kessler, is seeking applications for its Visiting Scholars and Professors and its Research in Pairs programs. CIRM Visiting Scholars will perform mathematical research in cooperation with scientists and researchers at the University of Trento or, more generally, of the Trento area and will present some research seminars. CIRM Visiting Professors will give short Ph.D. courses, summer courses, or series of seminars. Visits will usually be for between fifteen days and three months. Applications and proposals may be sent at any time to FBK, Centro Internazionale per la Ricerca Matematica, Via Sommarive n. 14-Povo, 38123 Trento, Italy, by postal mail or via electronic mail to micheletti@fbk.eu.

The Research in Pairs (RIP) Program provides for the presence of two or three partners from universities located in different towns who intend to work on a definite research project and for a well-specified period of time (ranging from one to six weeks). Applicant partners must submit a scientific project in the field of mathematics with a detailed research program. Participants in the program will also give occasional research seminar talks at the CIRM or at the University of Trento. Applications may be sent at any time to FBK, Centro Internazionale per la Ricerca Matematica, Via Sommarive n. 14-Povo, 38123 Trento, Italy, by postal mail or via electronic mail to micheletti@fbk.eu.

For more details about these positions and requirements for submission, see the website <http://science.unitn.it/cirm/PosizPostDocEn.html>.

—Fabrizio Catanese, Director, CIRM

PIMS Call for Proposals

The Pacific Institute for the Mathematical Sciences (PIMS) welcomes applications for support of conferences, workshops, seminars, collaborative research groups, and related activities in the mathematical sciences to occur after April 1, 2011. Proposals may be made for general scientific activities and major education and industrial outreach events. Letters of intent are required for collaborative research groups; successful groups will be invited to submit full proposals. The deadline for submissions is **October 1, 2010**. Pacific Northwest Seminars are scientific meetings of one to two days in length. Funding of up to US\$1,000, together with administrative support, is available from PIMS. Proposals for these may be submitted to the deputy director at any time.

For complete information and submission requirements, see the website <http://www.pims.math.ca/scientific/call-proposals>.

—From a PIMS announcement

News from IPAM

The Institute for Pure and Applied Mathematics (IPAM), located at the University of California, Los Angeles, holds long- and short-term research programs and workshops throughout the academic year for junior and senior mathematicians and scientists who work in academia, the national laboratories, and industry. IPAM sponsors two summer programs. IPAM's upcoming programs are listed below. See the website www.ipam.ucla.edu for detailed information and to find online application and registration forms. IPAM's Science Advisory Board meets in November, when it considers workshop and program proposals. Proposals from the community are encouraged; instructions are available on our website.

Registration and applications for support for all programs are available at the website.

Currently, IPAM is in the midst of its long program on optimization. Researchers from mathematics, computer science, operations research, engineering, and other fields are in residence at IPAM this fall. A series of workshops focus on current trends and applications of optimization.

IPAM's Tenth Anniversary Conference. November 2–4, 2010. The conference will focus on the current state and the future of interdisciplinary mathematics and science. Speakers from academia, government, and industry will present current research results related to programs from IPAM's first ten years. Two public lectures, given by Josh Tenenbaum (Massachusetts Institute of Technology) and Tony Chan (president, Hong Kong University of Science and Technology), and a panel discussion will provide an overview of interdisciplinary mathematics and science and IPAM's role in

this exciting endeavor. For details see www.ipam.ucla.edu/programs/ann2010/.

Winter 2011 Short Programs.

Algorithmic Game Theory. January 10–14, 2011.

Efficiency of the Simplex Method: Quo Vadis Hirsch Conjecture? January 18–21, 2011.

Random Media: Homogenization and Beyond. January 24–28, 2011.

Women in Mathematics Symposium. February 24–26, 2011.

Mathematics of Information—Theoretic Cryptography. February 28–March 4, 2011.

Navigating Chemical Compound Space for Materials and Bio Design. March 14–June 17, 2011. This long program includes the following workshops that are also open for participation. You may apply online for support to be core participants for the entire program or to attend any of the following individual workshops.

Tutorials. March 15–18, 2011.

Workshop I: Design of Drugs and Chemicals That Influence Biology. April 4–8, 2011.

Workshop II: Optimization, Search and Graph-Theoretical Algorithms for Chemical Compound Space. April 11–15, 2011.

Workshop III: Materials Design in Chemical Compound Space. May 2–6, 2011.

Workshop IV: Physical Frameworks for Sampling Chemical Compound Space. May 16–20, 2011.

Mathematical and Computational Approaches in High-Throughput Genomics. September 12–December 16, 2011. This long program includes the following workshops that are also open for participation. You may apply online for support to be core participants for the entire program or to attend any of the following individual workshops.

Tutorials. September 13–16, 2011.

Workshop I: Next-Generation Sequencing Technology and Algorithms for Primary Data Analysis. October 3–6, 2011.

Workshop II: Transcriptomics and Epigenomics. October 25–28, 2011.

Mini-Workshop: Cancer Genomics. October 31–November 1, 2011.

Workshop III: Evolutionary Genomics. November 15–18, 2011.

Workshop IV: Coancestry, Association, and Population Genomics. November 29–December 2, 2011.

Seventeenth Annual Conference for African American Researchers in the Mathematical Sciences (CAARMS). June 1–4, 2011.

Computational Methods in High Energy Density Plasmas. March 12–June 15, 2012. This long program will include tutorials and four workshops. You may apply online for support to be core participants for the entire program or to attend individual workshops. See the website for workshop titles and dates.

IPAM will host a summer school in 2011 tentatively titled “Probabilistic Models of Cognition”. The dates and more information will be announced soon.

—From an IPAM announcement